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NOTICE OF ALLOWANCE AND FEE(S) DUE

22428

7590

04/21/2009

FOLEY AND LARDNER LLP SUITE 500 3000 K STREET NW WASHINGTON, DC 20007

| EXAMINER | | | | | |
|-----------------|--------------|--|--|--|--|
| NGUYEN, DUY T V | | | | | |
| ART UNIT | PAPER NUMBER | | | | |

2894

DATE MAILED: 04/21/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/585,576 | 08/23/2006 | Kazuya Uejima | 065686-0163 | 4297 |

TITLE OF INVENTION: MIS-TYPE FIELD-EFFECT TRANSISTOR

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 07/21/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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| SUITE 500 3000 K STREE | LARDNER LLP | //2009 | | State addr | reby certify that the es Postal Service we essed to the Mail | is Fee(vith suf Stop | of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da | deposited with t class mail in an above, or being | n envelope facsimile |
| WASHINGTON | N, DC 20007 | | | | | | | (Дерс | ositor's name) |
| | | | | | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFIRMATIO | ON NO. |
| 10/585,576 TITLE OF INVENTION | 08/23/2006 N: MIS-TYPE FIELD-E | FFECT TRANSISTOR | Kazuya Uejima | | | | 065686-0163 | 4297 | |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE D | UE | PREV. PAID ISSUE | E FEE | TOTAL FEE(S) DUE | DATE D |)UE |
| nonprovisional | NO | \$1510 | \$300 | | \$0 | | \$1810 | 07/21/2 | :009 |
| EXAM | MINER | ART UNIT | CLASS-SUBCLASS | | | | | | |
| NGUYEN | , DUY T V | 2894 | 257-288000 | 8000 | | | | | |
| "Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un | AND RESIDENCE DATA tless an assignee is ident th in 37 CFR 3.11. Com | " Indication form | data will appear on th | native or a attor l be per or typene pag an a | rely, e firm (having as a gent) and the nammeys or agents. If printed. e) ttent. If an assignassignment. | membes of uno nam | er a 2 p to le is 3 | cument has bee | n filed for |
| Please check the appropr | riate assignee category or | categories (will not be p | rinted on the patent): | | Individual 🖵 Co | rporati | on or other private gro | up entity 🗖 G | overnment |
| 4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies | | | 4b. Payment of Fce(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | | |
| _ ~ . | atus (from status indicated ns SMALL ENTITY statu | | ☐ b. Applicant is no | lons | er claiming SMAI | L EN | ΓΙΤΥ status. See 37 CF | R 1.27(g)(2). | |
| | | uired) will not be accepte tes Patent and Trademark | | | | | | | ier party in |
| | | nes ratell and trademark | | | | | | | |
| Typed or printed name Registration No | | | | | | | | | |
| an application Confider | ntiality is governed by 35 and application form to the tions for reducing this but Virginia 22313-1450. DC | CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR | 1.14 This collection is | e ecti | imated to take 12 r | ninutes | to complete includin | gathering prer | aring and |

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| FOLEY AND L | ARDNER LLP | | NGUYEN, | DUY T V |
| SUITE 500 | | | ART UNIT | PAPER NUMBER |
| 3000 K STREET NW WASHINGTON, DC 20007 | | | 2894 DATE MAILED; 04/21/200 | 9 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 380 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 380 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | | |
|--|---|---|--|--|
| | 10/585,576 | UEJIMA, KAZUYA | | |
| Notice of Allowability | Examiner | Art Unit | | |
| | DUY T. NGUYEN | 2894 | | |
| The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subjec | application. If not included on will be mailed in due course. THIS | | |
| 1. This communication is responsive to <u>2/20/2009</u> . | | | | |
| 2. The allowed claim(s) is/are <u>1-17</u> . | | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application No. | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | ly complying with the requirements | | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | | |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | et be submitted. | | | |
| (a) including changes required by the Notice of Draftspers | on's Patent Drawing Review (PT | O-948) attached | | |
| 1) ☐ hereto or 2) ☐ to Paper No./Mail Date | | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment or in the | e Office action of | | |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t | | | | |
| DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 5. ☐ Notice of Informa 6. ☐ Interview Summa | ry (PTO-413), | | |
| 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | Paper No./Mail I 7. ⊠ Examiner's Amen | Date dment/Comment | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's Statel | ment of Reasons for Allowance | | |
| /THANH V. PHAM/ Primary Examiner, Art Unit 2894 | | | | |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Phillip J. Articola on 04/09/2009.

The application has been amended as follows:

In claim 1: lines 5, 8, and 9, before "active semiconductor layer", insert --strained--;
In claim 2: lines 5, 8, 10, 11, 12, 13 and 15, before "active semiconductor layer",
insert --strained--;

In claim 3: lines 5, 7 and 8, before "active semiconductor layer", insert --strained --;
In claim 9: line 2, before "active semiconductor layer", insert --strained--;
In claim 10: line 2, before "active semiconductor layer", insert --strained--;
In claim 11: line 2, before "active semiconductor layer", insert --strained--;
In claim 12: line 3, before "active semiconductor layer", insert --strained--.

Allowable Subject Matter

- 2. Claims 1-17 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The cited prior art, individually or in combination does not discloses or suggest all the claimed elements/limitation at in the present application wherein, amongst other laminations: "an interface between said base layer and said active semiconductor layer is at a depth of $2T_p$ or less" and "said built-up layer has a film thickness of $3T_p$ or greater",

"wherein T_p is the depth of maximum concentration of an impurity introduced for forming said source/drain region" in which dislocations are not formed, as in the context of independent claims 1-3.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUY T. NGUYEN whose telephone number is (571) 270-7431. The examiner can normally be reached on Monday-Friday, 7:30 Am - 5:00 Pm (alternative Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Nguyen can be reached on (571) 272-2402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2894

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DUY T NGUYEN/ Examiner, Art Unit 2894

/THANH V. PHAM/ Primary Examiner, Art Unit 2894